

AHRQ evidence-based Care Transformation Support (ACTS) Initiative

MCBK Annual Conference

Steve Bernstein, July 1st, 2020

Presentation Outline



ACTS

- Objectives
- Stakeholder Community / Work Groups / Process
- Roadmap Overview
- AHRQ Digital Knowledge Platform
- Knowledge Ecosystem / Learning Health System
- Benefits
- ACTS COVID-19 Guidance Collaborative & Pilot
- Next Steps

ACTS Objectives



- Establish requirements for an AHRQ Digital Knowledge Platform to make AHRQ resources more FAIR (Findable, Accessible, Interoperable, and Reusable), computable and useful
- Ensure this platform interoperates seamlessly with other public and private knowledge platforms in an integrated knowledge ecosystem to improve knowledge creation, interoperability and use at the point of care
- Build a stakeholder-driven Roadmap that ensures the AHRQ Digital Knowledge Platform and the knowledge ecosystem support the AHRQ mission and priorities, and enable learning health systems to achieve the quadruple aim

How ACTS Supports AHRQ



AHRQ Mission:

- Produce evidence to make health care safer, higher quality, more accessible, equitable, and affordable.
- Work within the US DHHS and with other partners to make sure that the evidence is understood and used.

Knowledge Ecosystem & Learning Health System



ACTS Approach



- Stakeholder Community and Workgroups to produce a Roadmap
- Current State vs. Future Vision
- Stakeholder-driven actions AHRQ/ others can take
- Volunteer Stakeholder Community Effort
- Coordinated with other related activities (MCBK ...)

ACTS Stakeholder Community (n = 240* as of 06/16/20)



					Research and Quality
Care Delivery Organizations (72)		Quality Organizations/ Consultants (37)	HIT/CDS Suppliers (41)		Other Govt Agencies (17)
 Adventist Healthcare ASU Cedars-Sinai Children's Hospital of Atlanta (2) Children's Hospital of Philadelphia City of Hope National Med Center Emory University George Washington University Harvard Medical School/BWH HealthPartners Hennepin Healthcare Inova Health System (2) Intermountain Healthcare (3) Kaiser Permanente Kittitas Valley Healthcare Lehigh Valley Health Network Mayo Clinic (4) Montefiore Medical Center 	Northwestern Medicine Oregon Health & Science University (2) Peninsula Regional Med Center (2) RWJBarnabas Health/Rutgers Health Sparrow Health Texas Health Resources University of Chicago/ Cochrane US Network (2) University of Arizona University of Kansas Medical Center University of Minnesota (2) University of Pennsylvania Medicine (3) University of Utah (5) University of Washington VA (12) Vanderbilt University Medical Center (9) Virginia Commonwealth University (2) Virginia Mason Medical Center	Advanced Health Outcomes Arizona Alliance for Community Health Centers BookZurman Clinical Informatics Database Consulting Group EBQ Consulting ecGroup Inc. Fusion Consulting IPRO (2) JBI (2) KLAS Klesis Healthcare Mathematica MITRE (2) NACHC (3) NCQA (6) Overhage Premier Principled Strategies RTI (5) sEA Healthcare Stratis Health	AgileMD AiCPG Apervita (2) Cerner (2) Clinical Architecture Clinical Cloud Solutions Crisp Health Decisions/UMN EBSCO EHRA/Allscripts Elimu Informatics, Inc. Epic (2) EvidenceCare (4) Health Catalyst (2) International Guidelines Center	Intersystems (2) Logica/HSPC MAGIC Evidence Ecosystem Foundation (2) Medisolv Inc. Meditech (2) Microsoft (2) Microsoft (2) Motive Medical Intelligence Optum Semedy Triostech Verily Life Sciences Visible Systems Corporation Wolters Kluwer	CDC (4) CMS (5) Idaho Dept of Health NIDDK - NIH (2) NLM - NIH ONC (2) Pima County Health Department (VA) Washington State Dept of Health

ACTS Stakeholder Community - Continued (n = 240* as of 06/16/20)



Informatics/ Researchers (14)	Specialty Societies (14)	Patient Advocates (2)	Guideline Developers	AHRQ (36)	Payers (2)	Other (5)
 Duke University (2) Idaho State University Indiana University (Mayo Clinic) Stanford University UCSF University of Michigan (3) University of Pittsburgh (2) (University of Utah) UT Health at San Antonio UT Southwestern (Vanderbilt University) West Virginia University 	• AAFP • AAP (3) • ACCME (2) • ACEP (3) • ACP • AHA • AMA • AMIA (2)	Health- Hats Engaging Patient Strategy	• (AAP) • (CDC)	Center for Evidence & Practice Improvement (25) Center for Financing, Access and Cost Trends (5) Center for Quality & Patient Safety (1) Office of Management Services (3) ACTS Project (2)	• (CMS) • BCBS CA • BCBSMN	HL7 Jodi Wachs McMaster OHRI UK National Health Service

ACTS Stakeholder Workgroups



Future Vision

Develop Future State
Vision grounded by
finalizing compelling
case examples, or Care
Scenarios, focusing on
4 Perspectives:

- Care Delivery
- Care Transformation
- Learning Health System, and
- Resource Development.

Evidence / Knowledge/ Tools Marketplace

Outline current state of Marketplace(s) & identify gaps.

Provide recommendations for how collective assets can be aggregated, organized to achieve future state vision.

Infrastructure/ Standards

Outline current state of Infrastructure/ Standards & identify gaps.

Map technology infrastructure needed to achieve future state vision.

Concept Demonstration

Define/refine concept demonstration protocols, activities, tools, etc.

Define high value, potential followon pilot implementations.

Integrate results into and inform Roadmap.

Roadmap

Create Roadmap template. Create process for continuous integration of feedback from above WGs.

Develop and finalize Roadmap to support organizations' care delivery, care transformation, learning health system and resource developer efforts. Recommend projects, challenge grants, pilots, research agenda, next steps.

ACTS Roadmap Overview



This stakeholder-driven, collaborative project has 5 key milestones. This roadmap ends with an enterprise solution that weaves together major public and private initiatives.

▼ A Ten Year Transformation

- 2020: Lay foundations
- 2021: Begin broad implementation pilots
- 2022 2024: Implement future vision
- 2025-2027: Realize FAIRness and Quadruple Aim improvements
- 2028-2030: Deliver and evaluate

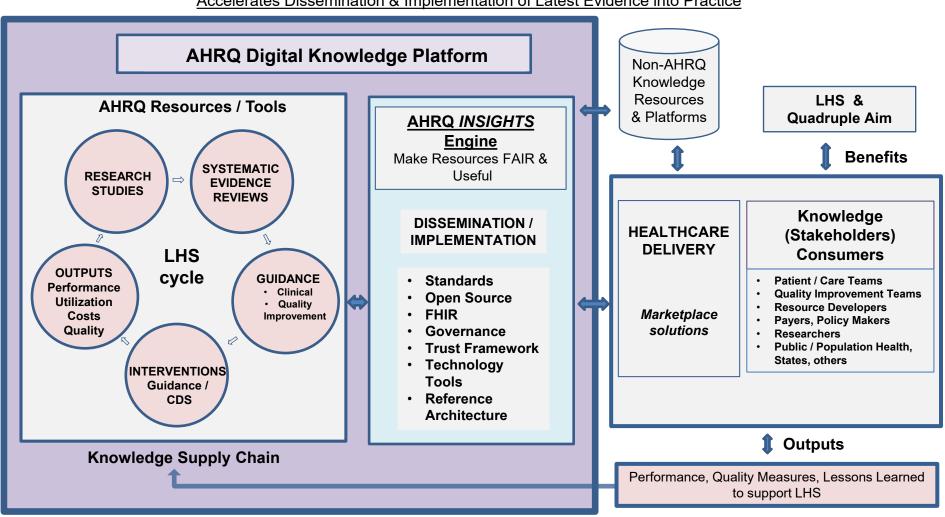


AHRQ Digital Knowledge Platform

Improve Dissemination and Use of AHRQ's resources to support Practice Improvement and Care Transformation to Achieve Better Health and Healthcare Delivery



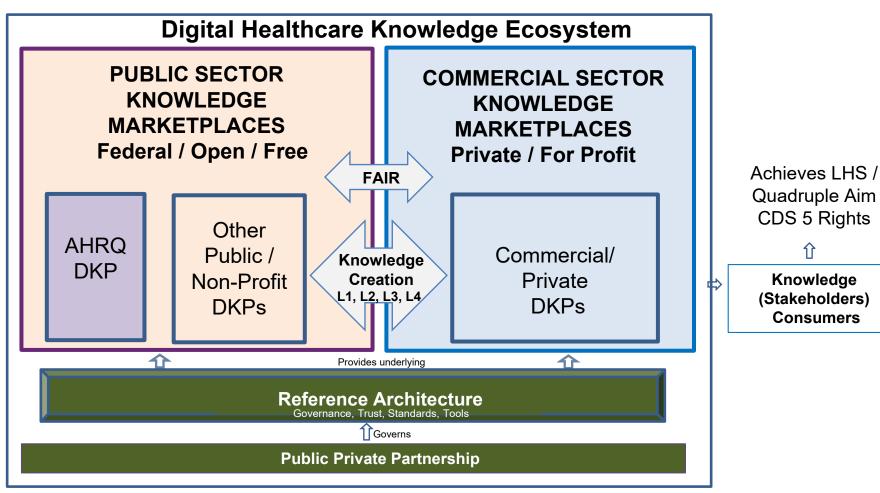
Integrates AHRQ resources/ tools to be more FAIR, computable / useful; Interoperates with other Knowledge Sources & Platforms Accelerates Dissemination & Implementation of Latest Evidence into Practice



KNOWLEDGE ECOSYSTEM



The AHRQ Digital Knowledge Platform and other Digital Knowledge Platforms (DKPs) combine to form the Knowledge Ecosystem

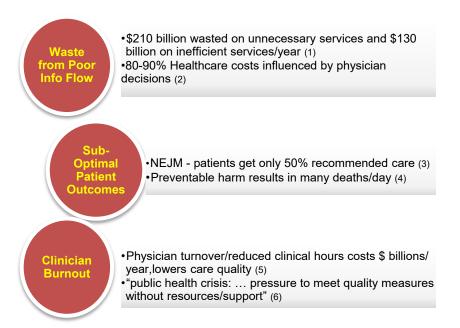


ACTS Roadmap Benefits

Digital Knowledge Platforms/ Knowledge Ecosystem Delivers LHS that Achieve the Quadruple Aim



- \$ Billions/year spent on care evidence/ guidance/ tools that aren't optimally accessed/used/useful
- Efforts to address this are fragmented/ siloed and without clear path to a comprehensive solution
- Care Delivery Stakeholders can't get information when/where and how it's needed



*Recoverable Waste in the US Health Care System (7)

Healthcare Waste Domain	Savings/Year from Measures to Eliminate Waste		
Care Delivery	\$44.4 billion to \$93.3 billion		
Care Coordination	\$29.6 billion to \$38.2 billion		
Over-treatment or low-value care	\$12.8 billion to \$28.6 billion		

Total = \$86.8B - \$160.1B/Year

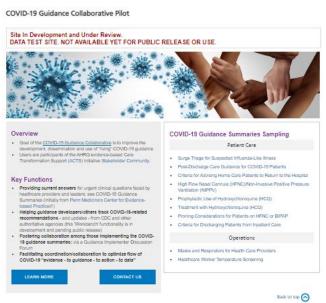
ACTS COVID-19 Guidance Collaboration Website

(digital.ahrq.gov/covid-acts)



- Disseminate guidance summaries
- Provide a 'workbench' that helps automate retrieval of - and change tracking within - evidence-based information
- Learning network / Collaborative to foster collaboration via discussion forums and other tools to improve clinical guidance development and workflow integration for COVID-19 (and beyond)
- Supports web-based, peer-to-peer discussions and coordination to make the knowledge supply chain more efficient and effective
- Synthesizes via new tools info from CDC, WHO, ECDC, leading CDO efforts, others
- Grades answers based on their support in various guidelines
- Provides mechanism for providers to submit questions and discuss how they are implementing answer





Next Steps



- Roadmap Report
- RFI
- ACTS COVID-19 Guidance Collaborative & Pilot
- Roadmap Status / Actions Under Advisement by AHRQ leadership

Contact Information



- Steve.Bernstein@ahrq.hhs.gov
- Digital.AHRQ.gov/ACTS
- Digital.AHRQ.gov/COVID-ACTS